

10-524-812

1-4. (CANCELED)

5. (NEW) A shaft-hub connection (1) between a shaft segment (2), which has one central toothed segment (B), the same as adjacent centering segments (A, C), and a stepped hole (11) in a hub (3), a shaft (2) and a hub (3) being jointed in axial direction (X) and, to produce a positive fit (5), a counter profile is cut in the hub (3) by the toothed segment (B), a front centering segment (A) in joint direction has a diameter (d1) and the toothed segment (B), the same as a rear centering segment (C) lying in joint direction, has a diameter (d2) larger than the diameter (d1) of the front centering segment (A), the hole (11) has only two adjacent segments (I, II) with different diameters (D1, D2), that the diameter (d1) in the front centering segment (A) with a diameter (D1), the same as the diameter (d2) in the rear centering segment (C) with a diameter (D2), forms a respective joint fit and the diameter (d2) in the central toothed segment (B) with the diameter (D1) forms the positive fit (5).

2 6. (NEW) The shaft-hub connection according to claim 5, wherein between the central toothed segment (B) and the front centering segment (A) one other segment (D) is located which has a diameter (d3) smaller than the diameter (d1) of the front centering segment (A).

3 7. (NEW) The shaft-hub connection according to claim 6, wherein the toothed segment (B) has one knurled toothing (5) with a root diameter (dF) and that the diameter (d3) is \leq the root diameter (dF).

4 8. (NEW) The shaft-hub connection according to claim 5, wherein the centering segment (C) changes over to a shaft collar (10) which abuts on a front face (12) of the hub (3).

5 9. (NEW) A shaft-hub connection (1) between a shaft segment (2) and a hub (3), the shaft segment (2) having one central toothed segment (B) and adjacent centering segments (A, C), the hub (3) having a stepped hole (11), the shaft segment (2) and hub (3) being jointed in an axial direction (X) and to produce a positive fit (5) a counter profile is cut in the hub (3) by the central toothed segment (B), a front centering segment (A) in a joint direction has a first diameter (d1), the central toothed segment (B) and the rear centering segment (C) lying in the joint direction have a second diameter (d2), the second diameter (d2) is larger than the first diameter (d1), the stepped hole (11) has a third segment (I) with a third diameter (D1) and a fourth segment (II) with a fourth diameter (D2), the first diameter (d1) is approximately

equal to the third diameter (D1), the second diameter (d2) is approximately equal with to fourth diameter (D2), the front centering segment (A) of the shaft segment (2) and the third segment (I) of the stepped hole (11) forming a joint fit, the rear centering segment (C) of the shaft segment (2) and the fourth segment (II) of the stepped hole (11) forming another joint fit, the rear centering segment (C) of the shaft segment (2) and the third segment (I) of the stepped hole (11) forming a positive fit (5).

6 10. (NEW) The shaft-hub connection according to claim 9, wherein one additional segment (D) is located between the front centering segment (A) and central toothed segment (B) and has a third diameter (d3) smaller than the first diameter (d1).

11 11. (NEW) The shaft-hub connection according to claim 10, wherein the central toothed segment (B) has one knurled toothing (5) with a root diameter (dF), the third diameter (d3) is less than or approximately equal to the root diameter (dF).

8 12. (NEW) the shaft-hub connection according to claim 9, wherein the rear centering segment (C) changes into a shaft collar (10) which abuts on a front face (12) of the hub (3).